






CLAMP DEVICE

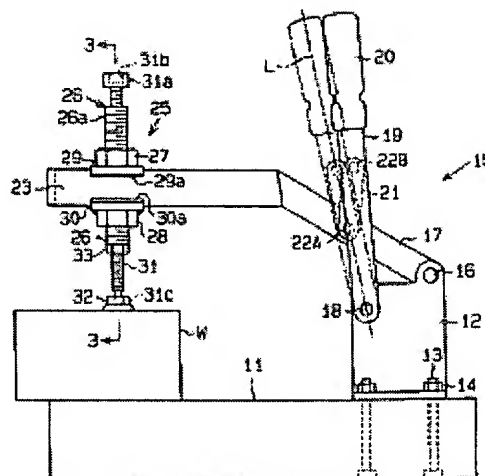
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Classification:
- **international:** B25B1/10; B25B1/14; B23Q3/06
- **european:** B25B5/10; B25B5/12; B25B5/16B
Application number: WO2003JP09464 20030725
Priority number(s): JP20020217157 20020725

Cited documents:

	JP5024423Y
	JP2015238U
	JP3086457U
	JP9290338
	JP50110191

Abstract of WO2004018154

A clamp device has a clamp arm reciprocatably installed on an installation member, pressing force applying means for applying pressing force to the clamp arm, and a clamp bolt for clamping a material to be clamped between the bolt and a support member. A threaded tube having an external thread portion on its outer side and an internal thread portion on its inner side is installed on the clamp arm such that its height position is adjustable using the external thread portion. A clamp bolt is screwed in the internal thread portion of the threaded tube. There is provided an operation portion for performing swing operation of the clamp bolt with the material to be clamped being clamped between the clamp bolt and the support member.



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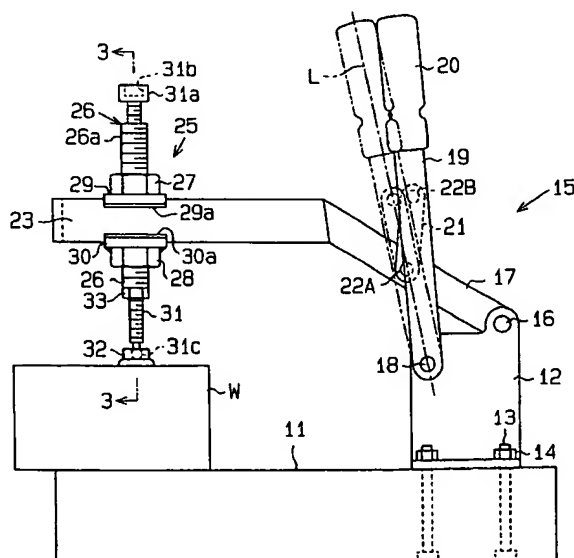


(10) 国際公開番号
WO 2004/018154 A1

- 添付公開書類：
 一 国際調査報告書
 一 請求の範囲の補正の期限前の公開であり、補正書受領の際には再公開される。

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) 発明の名称: クランプ装置



〔統葉有〕

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09464

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ B25B1/10, B25B1/14, B23Q3/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ B25B1/00, B25B5/00, B23Q3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-24423 Y2 (Kazuyoshi KATO), 22 June, 1993 (22.06.93), Claims; all drawings (Family: none)	1-11
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 89529/1988 (Laid-open No. 15238/1990) (Fujitsu Ltd.), 30 January, 1990 (30.01.90), Claims; Figs. 1 to 2 (Family: none)	1-11
Y	JP 3086457 U (Fuji Kogyo Co., Ltd.), 21 June, 2002 (21.06.02), Par. No. [0026]; all drawings (Family: none)	4

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
10 December, 2003 (10.12.03)

Date of mailing of the international search report
24 December, 2003 (24.12.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09464

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-290338 A (Makita Corp.), 11 November, 1997 (11.11.97), Par. No. [0017]; Fig. 1 (Family: none)	8
A	JP 50-110191 A (Tsuguo MURAOKA), 29 August, 1975 (29.08.75), Claims; Fig. 1 (Family: none)	1-11